

Name _____ Hour _____ Parent Signature _____

Air Quality LS 2
Test Review

1. Define the following terms

- particle:
- pure substance:
- particulate matter:

2. What is a heterogeneous mixture? Give 2 examples of a heterogeneous mixture.

3. What is a homogeneous mixture? Give 2 examples of a homogeneous mixture.

4. What is a sample? What is meant by the term *representative sample*?

5. The molecular formula for water is H_2O . What does the "2" mean?

6. If H and O are single elements, what do we call it when we combine 2 or more single elements?

7. Write a molecular formula for type of soot.

8. Define physical change. Give 2 examples of a physical change.

9. Define chemical change. Give 2 examples of a chemical change.

10. What are the reactants in a combustion reaction?

11. What are the products in a combustion reaction?

12. Photosynthesis Formula: Identify the products and reactants.

_____ + _____ + _____ = _____

13. In the morning I like to drink a cup of coffee with a teaspoon of sugar in it. Identify the following:

▪ Solute _____ Why?

▪ Solvent _____ Why?

14. What do we call the ability of a solute to dissolve in a solvent?

15. Label the components of air

elements _____

% of air _____

element _____

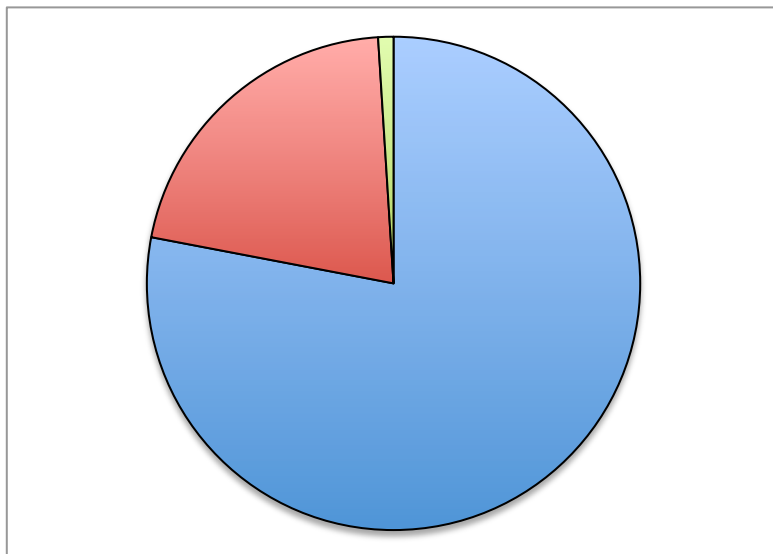
chemical symbol _____

% of air _____

element _____

chemical symbol _____

% of air _____



16. All matter is made up of _____, but most of the volume of an atom is _____.

17. Complete the chart below:

Subatomic Particle	Location in atom	Charge	Mass compared to the other particles

18. What was the name of the scientist who performed several experiments and gathered evidence that supported the beginning of the atomic theory?

What did his theory state?

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19. What was Bohr's discovery?

20. Why has atomic theory changed over the last 200 years?

21. Charges that are the same _____ and opposite charges _____.

22. How are the elements arranged in the periodic table today?

23. Draw and describe what a molecule of oxygen looks like in oxygen gas at room temperature. (Think of the molecular kit) What type of bond exists in this molecule (single, double, triple)

24. If humidity is a measure of the amount of water vapor in the air, does warm air or cold air hold more moisture? Why do we tend to get dry skin in winter?